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NOTICE OF ALLOWANCE AND FEE(S) DUE,

7	590 09/06/2002			The state of the s	
Dan Steinberg	03/100/2002			* EXAMI	NER
ACT Microdevices				MOONEY, M	ICHAEL P
Radford, VA 2414				ART UNIT	CLASS-SUBCLASS
·	· · · · · · · · · · · · · · · · · · ·			2877	385-020000
	C CO DE ARCON MAN		DAT	TE MAILED: 09/06/2002	
APPLICATION NO.	FILING DATE	FIRST NA	MED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/728,896	12/01/2000		A. Steinberg	ACT-167	5701
		VING MICROMACHINEI	D FRONT FACE WITH ROLLER		
APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$300	\$940	12/06/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT-RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

(703)746-4000 Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

09/06/2002

Dan Steinberg ACT Microdevices, Inc. 7586 Peppers Ferry Loop Radford, VA 24141

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

	transmitted to the OSI 10; on the date indicated below:
(Depositor's name)	
(Signature)	
(Date)	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/728.896	12/01/2000	Dan A. Steinberg	ACT-167	5701

TITLE OF INVENTION: FIBER ARRAY SWITCH HAVING MICROMACHINED FRONT FACE WITH ROLLER BALLS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$300	\$940	12/06/2002
EXAM	INER	ART UNIT	CLASS-SUBCLASS		
MOONEY, N	MICHAEL P	2877	385-020000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).		2. For printing on the patent the names of up to 3 register	ed patent attorneys		
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.		or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		registered patent attorneys or is listed, no name will be printe	agents. If no name		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or 4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):	☐ individual	corporation or other private group ent	ty u government
☐ Issue Fee	• • • • • • • • • • • • • • • • • • • •	☐ A check in the amount of the fee(s) is enclosed.		
☐ Publication Fee	☐ Payment by credit care	d. Form PTO-203	8 is attached.	
☐ Advance Order - # of Copies	— ☐ The Commissioner is Deposit Account Number	☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number(enclose an extra copy of this form).		
Commissioner for Patents is requested to apply the	e Issue Fee and Publication Fee (if any) or to re	apply any previo	ously paid issue fee to the application ident	ified above.
(Authorized Signature)	(Date)	-		
NOTE; The Issue Fee and Publication Fee (if other than the applicant; a registered attorney interest as shown by the records of the United Str	or agent; or the assignee or other party in			
This collection of information is required by 3 obtain or retain a benefit by the public which i application. Confidentiality is governed by 35 U estimated to take 12 minutes to complete, incluc completed application form to the USPTO. Tir case. Any comments on the amount of time suggestions for reducing this burden, should be Patent and Trademark Office, U.S. Department NOT SEND FEES OR COMPLETED FOI Commissioner for Patents, Washington, DC 202.	s to file (and by the USPTO to process) an S.C. 122 and 37 CFR 1.14. This collection is ling gathering, preparing, and submitting the ne will vary depending upon the individual you require to complete this form and/or sent to the Chief Information Officer, U.S. of Commerce, Washington, D.C. 20231. DO RMS TO THIS ADDRESS. SEND TO:			

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/728,896	12/01/2000	Dan A. Steinberg	ACT-167	5701	
7590 09/06/2002		[EXAMINER		
Dan Steinberg ACT Microdevices, Inc.			MOONEY, MICHAEL P		
7586 Peppers Ferr		[ART UNIT	PAPER NUMBER	
Radford, VA 24141			2877		
		I	DATE MAILED: 09/06/2002		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 217 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 217 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



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09/728,896 12/01/2000		Dan A. Steinberg	ACT-167	5701	
7590 09/06/2002 Dan Steinberg			EXAMINER		
		MOONEY, MICHAEL P			
ACT Microdevices 7586 Peppers Ferr			ART UNIT	PAPER NUMBER	
Radford, VA 24141 UNITED STATES			2877		
			DATE MAILED: 09/06/2002		

Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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*	Application No.	Applicant(s)			
	09/728,896	STEINBERG ET AL.			
Notice of Allowability	Examiner	Art Unit			
¢.	Michael P. Mooney	2877			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.					
 This communication is responsive to The allowed claim(s) is/are <u>1-17</u>. The drawings filed on <u>01 December 2000</u> are accepted by Acknowledgment is made of a claim for foreign priority und All b) Some* c) None of the: Certified copies of the priority documents have 	ler 35 U.S.C. § 119(a)-(d) or (f).				
2. Certified copies of the priority documents have3. Copies of the certified copies of the priority doc	= :				
International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority ur (a) The translation of the foreign language provisional a 6. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a provisi pplication has been received.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which gives reas	this application. THIS THREE-MON	NTH PERIOD IS NOT EXTENDABLE. R'S AMENDMENT or NOTICE OF			
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner. (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No					
Identifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper	.84(c)) should be written on the drawin with a transmittal letter addressed to	ngs in the top margin (not the back) the Official Draftsperson.			
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s)					
 1⊠ Notice of References Cited (PTO-892) 3□ Notice of Draftperson's Patent Drawing Review (PTO-948) 5⊠ Information Disclosure Statements (PTO-1449), Paper No. ⊆ 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4 ☐ Interview Summ 6 ☐ Examiner's Ame	al Patent Application (PTO-152) ary (PTO-413), Paper Nondment/Comment ement of Reasons for Allowance			

Application/Control Number: 09/728,896

Art Unit: 2877

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The prior art, either alone or in combination, does not disclose or render obvious a fiber optic switch having an object disposed on the fron face grooves between the first stationary fiber array and the movable fiber array; an object disposed on the front face groove and rear face grooves between the second stationary fiber array and the movable fiber array; whereby the movable fiber array moves in a transverse direction by rolling or sliding on the objects in combination with the rest of claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art has sliding fiber arrays, but no object between them to aid in the motion.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Mooney whose telephone number is 703-308-6125. The examiner can normally be reached during weekdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 703-308-4881. The fax phone numbers

Application/Control Number: 09/728,896

Art Unit: 2877

for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-

0956. An alternative useful number for status inquiries is 703-306-3329.

Examiner

Art Unit 2877

Supervisory Patent Examiner

Art Unit 2877

FGF/mpm 6/25/02